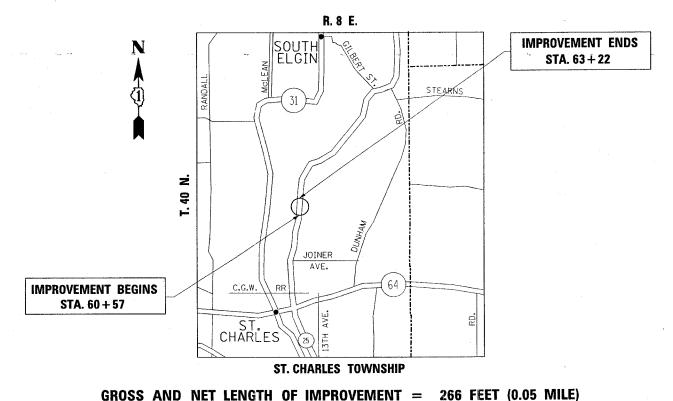
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

F.A.U. 2503: ILLINOIS ROUTE 25 **OVER NORTON CREEK** SECTION: 49 BR-1

SN: 045-0045

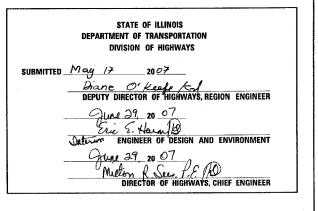
BRIDGE DECK REPLACEMENT KANE COUNTY C-91-432-06



COUNTY SECTION 27 1 49 BR-1 KANE

D-91-432-06





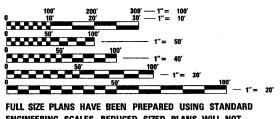
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN THE CITY OF ST. CHARLES AND ST. CHARLES **TOWNSHIP**

TRAFFIC DATA:

2005 ADT: 10,000 SPEED LIMIT: 35 MPH



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 60B81

1

Attracts of action of the form and 5/17/2007 to 12 at All Increases

INDEX OF SHEETS

- COVER PAGE
- 2. INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS
- 3-4. SUMMARY OF QUANTITIES
- 5. TYPICAL SECTIONS
- 6. STAGING PLANS
- 7.-16. BRIDGE PLANS (SN 045-0045)
- 17. ROADWAY AND PAVEMENT MARKING PLAN
- 18. TEMPORARY TRAFFIC SIGNAL PLAN
- 19. CABLE PLAN, PHASE DESIGNATION DIAGRAM
- AND SCHEDULE OF QUANTITIES
- 20. TEMPORARY LIGHTING PLAN21. BROOKWOOD RD DETOUR PLAN
- 22. BUTT JOINT AND HMA TAPER DETAILS
- 23. TEMPORARY INFORMATION SIGNING
- 24. DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 25. TYPICAL APPLICATION RAISED REFLECTIVE
- PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
- 26. COMBINATION LIGHTING & TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX DETAIL
- 27. TEMPORARY LIGHT POLE DETAILS
- 27A 270. GUARDRAIL OETAILS

LIST OF STATE STANDARDS

402401-05	BRIDGE	APPROACH	PAVEMENT

- 631032-03 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 701301-02 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701311-02 LANE CLOSURE 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701321-08 LANE CLOSURE, 2L. 2W. BRIDGE REPAIR WITH BARRIER
- 702001**-06**
- TRAFFIC CONTROL DEVICES
- 704001-03 TEMPORARY CONCRETE BARRIER

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTORS RESPONIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRATOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRATOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL CONTACT DON CHIARUGI AT (847) 741-9857 TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL FOR TYPICAL APPLICATION OF RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHOWN IN THE PLANS.

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

THE CONTRATOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF ST. CHARLES, ST. CHARLES TOWNSHIP.

THE CONTRATOR SHALL BE RESPONSIBLE, DURING THE DETOUR OF BROOKWOOD RD FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

THE ENGINEER SHALL CONTACT MR. TERRY MASTERSON, BUSINESS OWNER AT 5N160 ROUTE 25, ST. CHARLES, ILLINOIS AT (630) 513-8597 PRIOR TO THE TEMPORARY CLOSURE TO BROOKWOOD DRIVE TO COORDINATE ACCESS FOR HIS DELIVERY TRUCKS.

THE RESIDENT ENGINEER SHALL CONTACT MR. STEVEN HOOGHKIRK, BUREAU OF MAINTENANCE SUPPORT SECTION AT (847) 705-4177 FOR AVAILABILITY OF TEMPORARY CONCRETE BARRIER, STATE OWNED. IF TEMPORARY CONCRETE BARRIER, STATE OWNED. IS AVAILABLE, IT SHALL BE UTILIZED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL LOAD THE TEMPORARY CONCRETE BARRIER FROM THE STATE MAINTENANCE YARD, TRANSPORT, UNLOAD AND PLACE THE TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE DETAILS SHOWN IN THE PLAN. AT THE CONCLUSION OF WORK, REMOVE, TRANSPORT AND UNLOAD THE BARRIER UNITS AT THE SPECIFIED STATE MAINTENANCE AS DIRECTED BY THE ENGINEER. IF TEMPORARY CONCRETE BARRIER, STATE OWNED, IS NOT AVAILABLE, THE CONTRACTOR SHALL PROVIDE TEMPORARY CONCRETE BARRIER. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CONCRETE BARRIER TERMINAL SECTIONS. AT THE COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL REMOVE, TRANSPORT AND UNLOAD THE TEMPORARY BARRIER TERMINAL SECTIONS AT THE SPECIFIED STATE MAINTENANCE YARD AND THE TERMINAL SECTIONS SHALL BECOME THE PROPERTY OF THE DEPARTMENT OF TRANSPORTATION

REVISIONS
NAME
DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION
INDEX OF SHEETS
GENERAL NOTES
AND STATE STANDARDS

ev.

SCALE: VERT. HORIZ. DATE

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DATE = 5/18/2007 NAME = c:\projects\d148100\d148100. SCALE = 50.0001 / IN.

CONTRACT 60B81

F	A.U.	SECTION		COUNT	Y	TOTAL SHEETS	SHEET NO.
2	503	49 BR-1		KANE	-	27	3
	FFD. F	OM TRIG GARS	1 11	INOIS	HTC	HWAY PRO	MECT

	SUMMARY OF QUANTITIES	1			CONSTRUCTION	ON TYPE	CODE			SUMMARY OF QUANTITIES			ļ		CONSTRUCT	ION TYPE	CODE	Т
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 100% STATE SFTY-2A				CODE NO	0	ITEM	UNIT	TOTAL QUANTITIES	URBAN 100% STATE SFTY-2A					
X0325774	RELOCATE TEMPORARY IMPACT ATTENUATOR	EACH	2	2				70400100) TEMPO	RARY CONCRETE BARRIER	FOOT	636	636					
20201006	GRADING AND SHAPING SHOULDERS	UNIT	2	2				70400200	RELOC	ATE TEMPORARY CONCRETE BARRIER	FOOT	636	636					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.5	0.5				★ 78000200		OPLASTIC PAVEMENT MARKING	FOOT	550	550	***************************************		- ·		
40600300 40600400	AGGREGATE (PRIME COAT) MIXTURE FOR CRACKS, JOINTS,	TON TON	2	0.5				* 78000650		OPLASTIC PAVEMENT MARKING	FOOT	10	10					
	AND FLANGEWAYS							X 78005110	EPOXY	PAVEMENT MARKING - LINE 4"	FOOT	152	152			-		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	55	55				¥ 78100100	RAISE	D REFLECTIVE PAVEMENT MARKER	EACH	12	12					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	39	39				78100105	RAISE (BRID	D REFLECTIVE PAVEMENT MARKER	EACH	4	4					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO	TON	55	55				* 78201000		NAL MARKER - DIRECT APPLIED	EACH	3	3					
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	153. 33	153. 33				78300200		D REFLECTIVE PAVEMENT MARKER	EACH	16	16					
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	30.67	30. 67		M**		80400100		RIC SERVICE INSTALLATION	EACH	1	1				- Page 1	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	600	600				80400200	ELECT	RIC UTILITY SERVICE CONNECTION	L SUM	1	1					
48101200	AGGREGATE SHOULDERS, TYPE B	TON	12	12				¥ 81603035		DUCT, 600V, 2-1C NO. 6, 1/C NO. 6	FOOT	100	100					
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1 .	ı				. /		ND, (XLP-TYPE USE), 1" DIA. THYLENE					-			
50300260	BRIDGE DECK GROOVING	SQ YD	324	324				* 81800190		AL CABLE, 2-1/C NO. 2 WITH ENGER WIRE	FOOT	1100	1100	į				
50300300	PROTECTIVE COAT	SQ YD	338	338				¥ 81900200		CH AND BACKFILL FOR ELECTRICAL WORK	FOOT	100	100					
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2944	2944				* 82103400	LUMIN	NAIRE, SODIUM VAPOR, HORIZONTAL F, PHOTO-CELL CONTROL, 400 WATT	EACH	7	7					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4350	4350				★ 83057350	-	F POLE, WOOD, 60 FOOT, CLASS 4	EACH	1	1					
50800515	BAR SPLICERS	EACH	71	71				¥ 83057355		F POLE, WOOD, 60 FOOT, CLASS 4,	EACH	7	7					
50901050	STEEL RAILING, TYPE SM	FOOT	128	128				A 0303/333		15FT MAST ARM	LAOI	,	,					
51500100	NAME PLATES	EACH	1	1				× 84100110	O REMOV	AL OF TEMPORARY LIGHTING UNITS	EACH	7	7					
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	1. 8	1.8				¥ 84200500	REMOV	VAL OF EXISTING LIGHTING UNIT,	EACH	7	7					
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3	3				.¥ 84500120		/AL OF ELECTRIC SERVICE	EACH	1	1					
63300230	REMOVAL AND REINSTALLATION OF EXISTING STEEL PLATE BEAM GUARD RAIL, ATTACHED	FOOT	75	75					INSTA	ALLATION	EACH	3	3					
	TO STRUCTURES							¥ 89000100		DRARY TRAFFIC SIGNAL INSTALLATION	SQ FT	865. 3	865. 3			1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				5870030		RETE SEALER ECTOR MARKERS, TYPE A	EACH	4	4					
67100100	MOBILIZATION	L SUM	1					* X0323115	-			9	9					
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	. 1	1				X0323116		ECTOR MARKERS, TYPE B CTURAL REPAIR OF CONCRETE	EACH SQ FT	2.5	2.5					
70300500	PAVEMENT MARKING TAPE, TYPE III	FOOT	800	800				//352550		TH GREATER THAN 5 INCHES)								

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*SPECIALTY ITEMS

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

PLOT DATE: 5/18/2007

CONTRACT 60B81

 F.A.U. RTE.	SE	CTION		COUNT	Y	TOTAL SHEETS	SHEET NO.
2503	49	BR-1		KANE		27	4
FED.	ROAD DIST	. NO. 1	ILL	INOIS	HIG	HWAY PRO	JECT

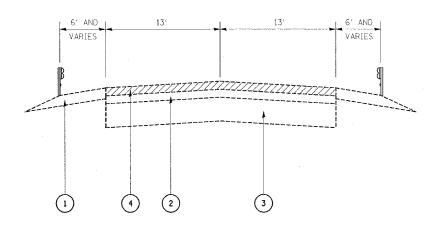
	SUMMARY OF QUANTITIES				CONSTRL	ICTION TYPE	CODE		-	SUM	MARY OF QU	ANTITIES			<u></u>	r	T	ION TYPE	LODE .	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 100% STATE SFTY-2A					- CODE NO	•	ITEM		UNIT	TOTAL QUANTITIES	URBAN 100% STATE SFTY-2A					
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	13. 4	13. 4								·								
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	338	338																
XX005369	TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR	L SUM	1.	1																
XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	8	8																
-Z0001900-	ASBESTOS BEARING PAD REMOVAL	EACH-	64	64-																
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2					-				-						-	
Z0030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2																
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REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

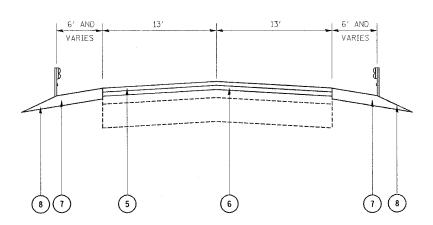
PLOT DATE: 5/18/2007



EXISTING TYPICAL SECTION (ILL. RTE. 25)

STA 60+57 - STA 61+57
STA 62+22 - STA 63+22

NOTE: EXISTING BRIDGE TYPICAL SECTION (SN 045-0045) STA 61+57 - STA 62+22 SEE BRIDGE PLAN SH 3



PROPOSED TYPICAL SECTION (ILL. RTE. 25)
STA 60+57 - STA 61+57
STA 62+22 - STA 63+22

NOTE: PROPOSED BRIDGE TYPICAL SECTION (SN 045-0045) STA 61+57 - STA 62+22 SEE BRIDGE PLAN SH 3

LEGEND

- 1 EXISTING AGGREGATE SHOULDER
- 2 EXISTING HMA OVERLAYCOURSE
- 3 EXISTING PCC PAVEMENT
- PROPOSED HMA SURFACE REMOVAL, 2"
- 5 PROPSED HMA SURFACE COURSE, MIX "D", N70, 11/2"
- 6 PRPOSED HMA LEVELING BINDER, MACHINE METHOD, N70, 11/2"
- 7 PRPOSED GRADING AND SHAPING SHOULDERS
- 8 PRPOSED AGGREGATE WEDGE SHOULDER, TYPE B

BITUMINOUS MIXTURE REQUIREMENTS

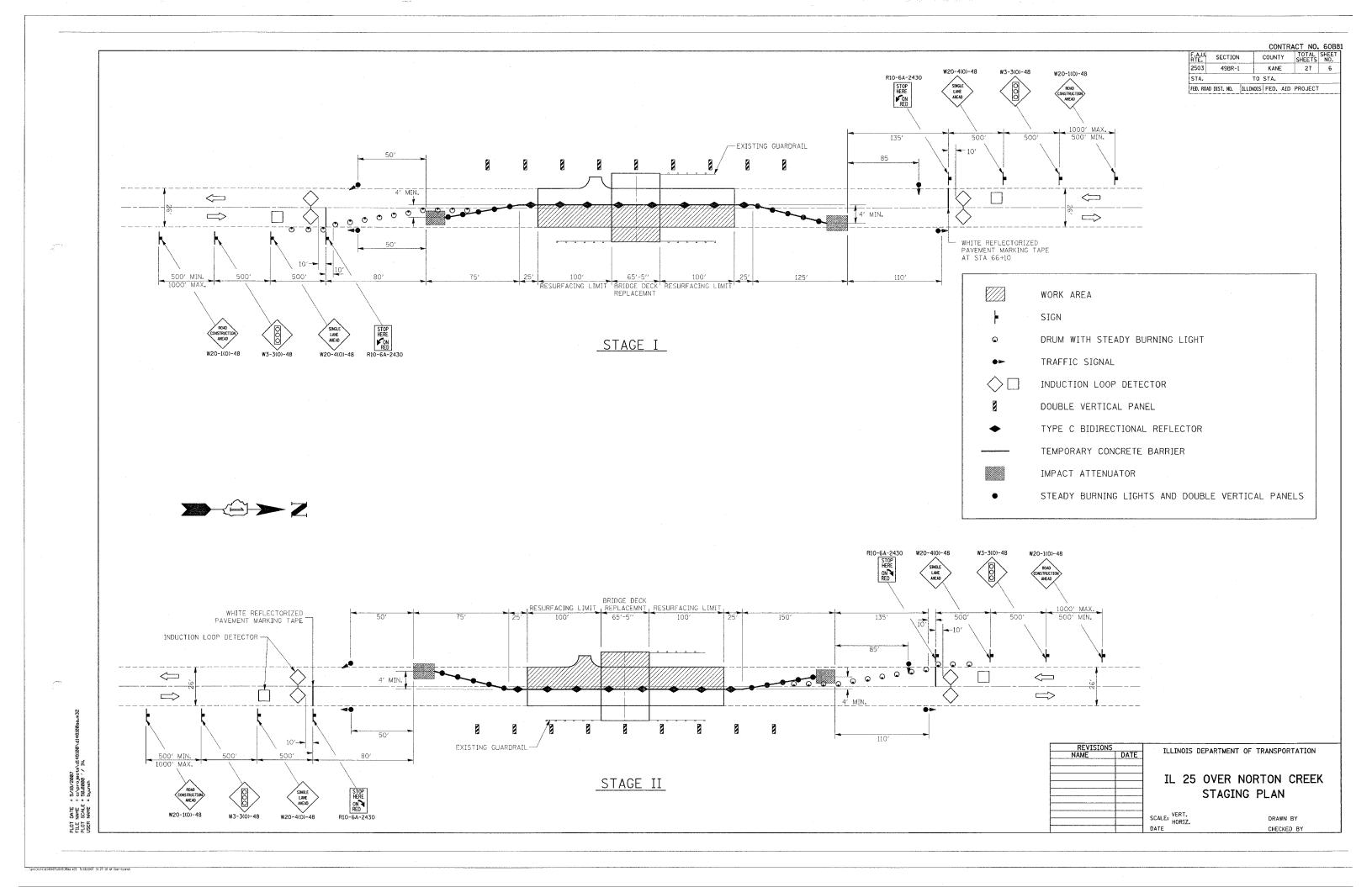
MIXTURE USE	AC/PG	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5MM MIX "D", N7O	PG 64-22	4% ⊚ 70 GYR
HOT-MIX ASPHALT BINDER COURSE,米 IL-9.5MM, N7O (MACHINÉ METHOD)	PG 64-22/ 58-22	4% @ 70 GYR

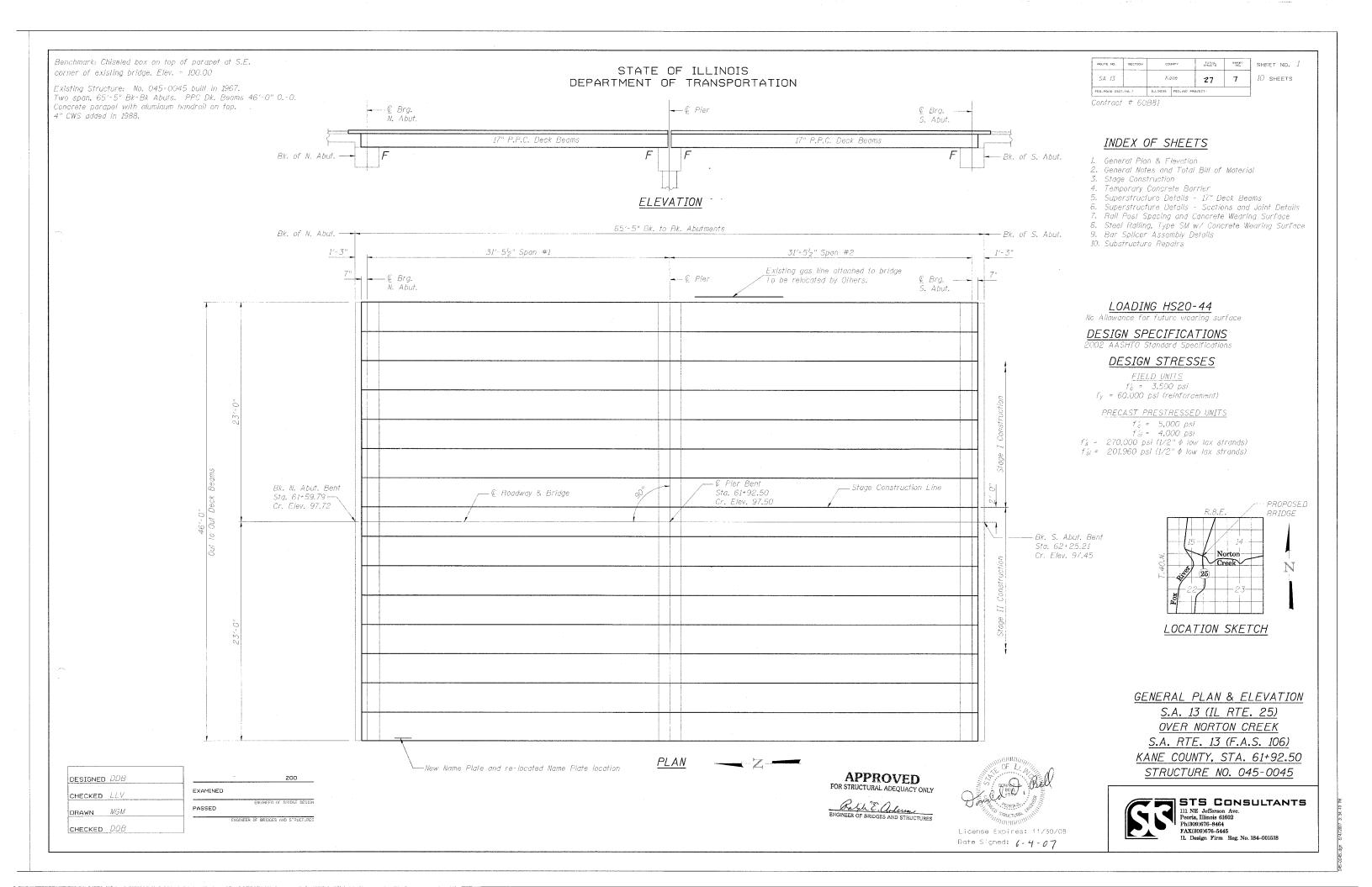
NOTE: THE UNIT WEIGHT USED FOR ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS./SQ.YD./IN. ** WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER SHALL BE PG58-22,

REVISIONS DATE	ILLINOIS DEPARTM	ENT OF TRANSPORTATION
		R NORTON CREEK AL SECTIONS
	SCALE: VERT. HORIZ. DATE	DRAWN BY CHECKED BY

PLOT DATE = 5/18/2807 FILE WHYE = 5/10/2016/24/4148100/cit481802am. PLOT SCALE = 58/8000 / IN. USER NAME = bywah

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POLITIE NO	SECTION		INTY	PUTING SHEETS	SHEET NO.	SHEET	NO.	2
SA 13	,,		NE	27	8	<i>10</i> s#	EETS	
FED. ROAD DIST	. NO. 7	TLUMDIS	TED. AID PR	DJECT-				

Contract # 60B81

GENERAL NOTES

- 1. Reinforcement bars shall conform to the requirements of ASTM A706 GR 60 (IL Modified). See special provisions.
- 2. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- 3. All Construction joints shall be bonded.
- 4. The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.
- 5. No instream work will be allowed on this project.
- 6. Repair of the pier caps and abutment shall be completed prior to placement
- 7. The contractor is advised that the existing PPC Dock Boams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
- 8. If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer. verifying that the equipment and procedure used will not overstress the new beams." To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy fimbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If nocessary, shims shall be used under the crane mal to ensure uniform contact with the underlying beams. Prior to placement of the timber mats, the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum, and after grouting and curing the shear keys. A temporary means of lateral restraint will be required for facia beams at expansion ends of beams to prevent movement of the beams.
- 9. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirement of ASIM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manfacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.
- 10. Concrete Sealer shall be applied to the designated areas of the abulments and pier,

REBUILT 200_ BY STATE OF ILLINOIS S.A. RTE, 13 LOADING HS20 STR. NO. 045-0045

STATION 61+92.50

NAME PLATE

Sec Std. 515001 Relocate existing name plate next to rebuilt name plate, cost included in Name Plates.

TOTAL BILL OF MATERIAL

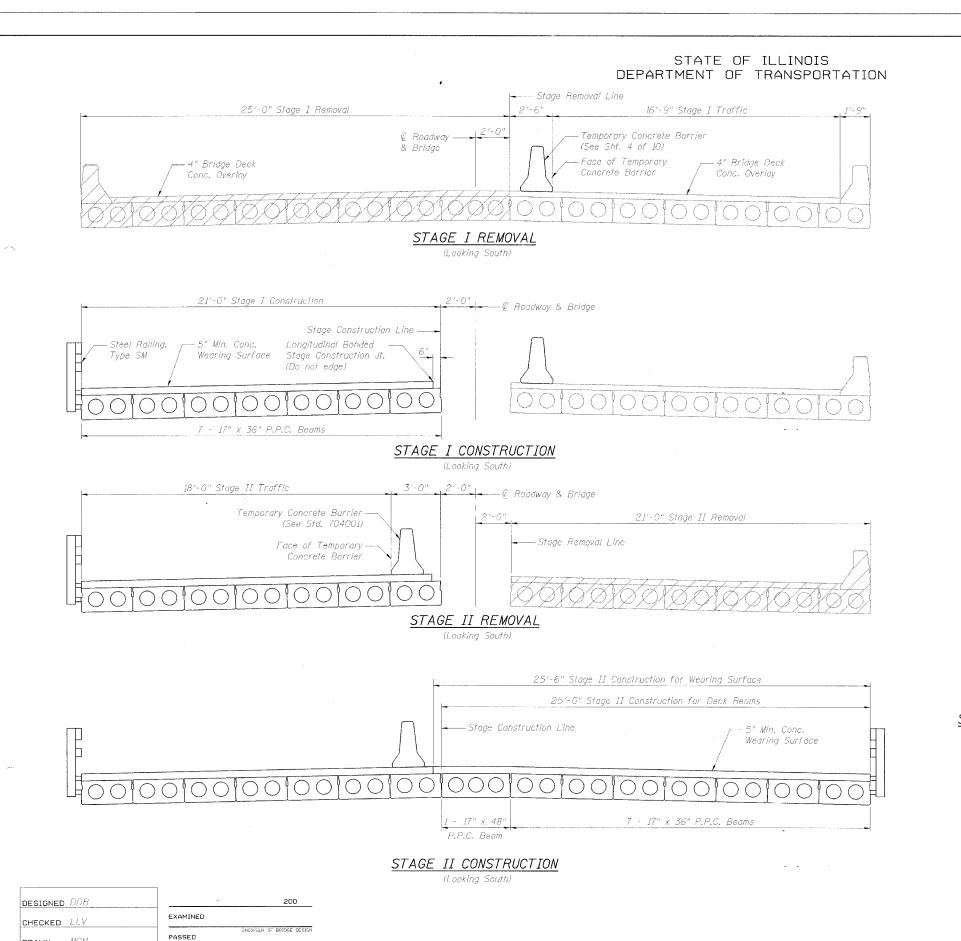
ITEM	UNIT	SUPER	SUB	TOTAL
Protective Coat	Sq. Yd.	338		338
Removal of Existing Superstructures	Each	1		1
Bridge Deck Grooving	Sq. Yd.	324		324
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2,941		2,944
Reinforcement Bars, Epoxy Coated	Pound	4,350		4,350
Steel Railing, Type SM	Foot	128	,	128
Name Plates	Each	1		1
Concrete Wearing Surface, 5"	Sq. Yd.	338		338
Bar Spilcers	F.ach	71		71
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.		2.5	2.5
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.		13.4	13.4
Concrete Segler	Sq. Ft.		865	865
Controlled Low-Strength Material	Cu. Yd.		1.8	1.8

GENERAL NOTES AND TOTAL BILL OF MATERIAL S.A. 13 (IL RTE. 25) OVER NORTON CREEK S.A. RTE. 13 (F.A.S. 106) KANE COUNTY, STA. 61+92.50 STRUCTURE NO. 045-0045



DESIGNED DDB EXAMINED CHECKED LLV PASSED DRAWN MGM

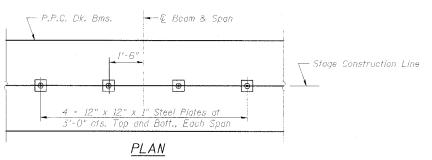
CHECKED DDB

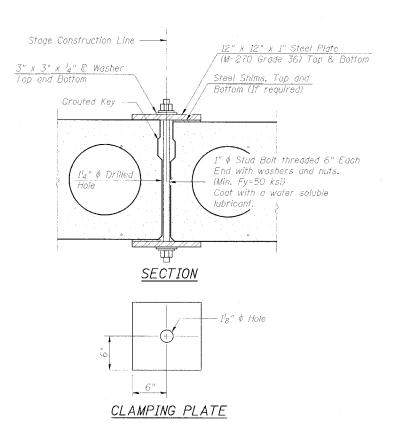


DRAWN MGM CHECKED DDB



Contract # 60B81





SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

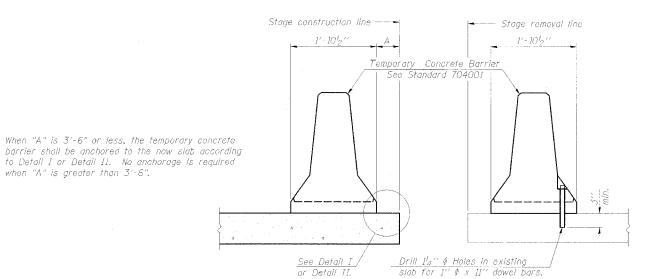
- I. See Standard Specifications for Stage Construction of Precast Prestressed Concrete Deck Beams.
- 2. Cost included with "Precast Prestressed Concrete Deck Beams".
- 3. See Stage Construction Details on Roadway Plans for traffic lanes.

STAGE CONSTRUCTION
S.A. 13 (IL RTE. 25)
OVER NORTON CREEK
S.A. RTE. 13 (F.A.S. 106)
KANE COUNTY, STA. 61+92.50
STRUCTURE NO. 045-0045



RCU	TI NO.	SECTION	2.01	JN" ₹	TOTAL SHEETS	SHEET NO.	SHEET	NO.	4
SA	13	-	Ka	ne	2.7	10	10 shi	EETS	
FEO.	ROPE DIST	. NO. 7	ILLINOIS	FED. AID PR	DJECT-				

Contract # 60B81



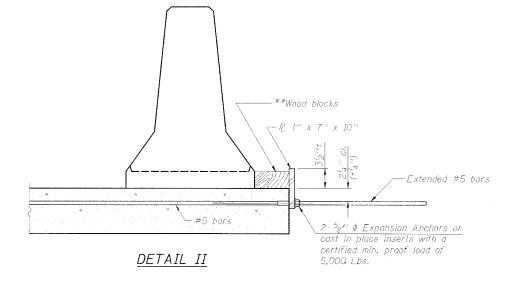
NEW SLAB

EXISTING SLAB

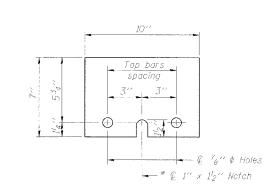
SECTIONS THRU SLAB

Traffic side only. Cost included

with Temporary Concrete Barrier.



** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER P 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER S.A. 13 (IL RTE. 25) OVER NORTON CREEK S.A. RTE. 13 (F.A.S. 106) KANE COUNTY, STA. 61+92.50 STRUCTURE NO. 045-0045



**Wood blocks ←Top Layer Splicer

DETAIL I

when "A" is greater than 3'-6".

DESIGNED DDB EXAMINED CHECKED LLV PASSED DRAWN MGM CHECKED DDB

11-1-06

R-27

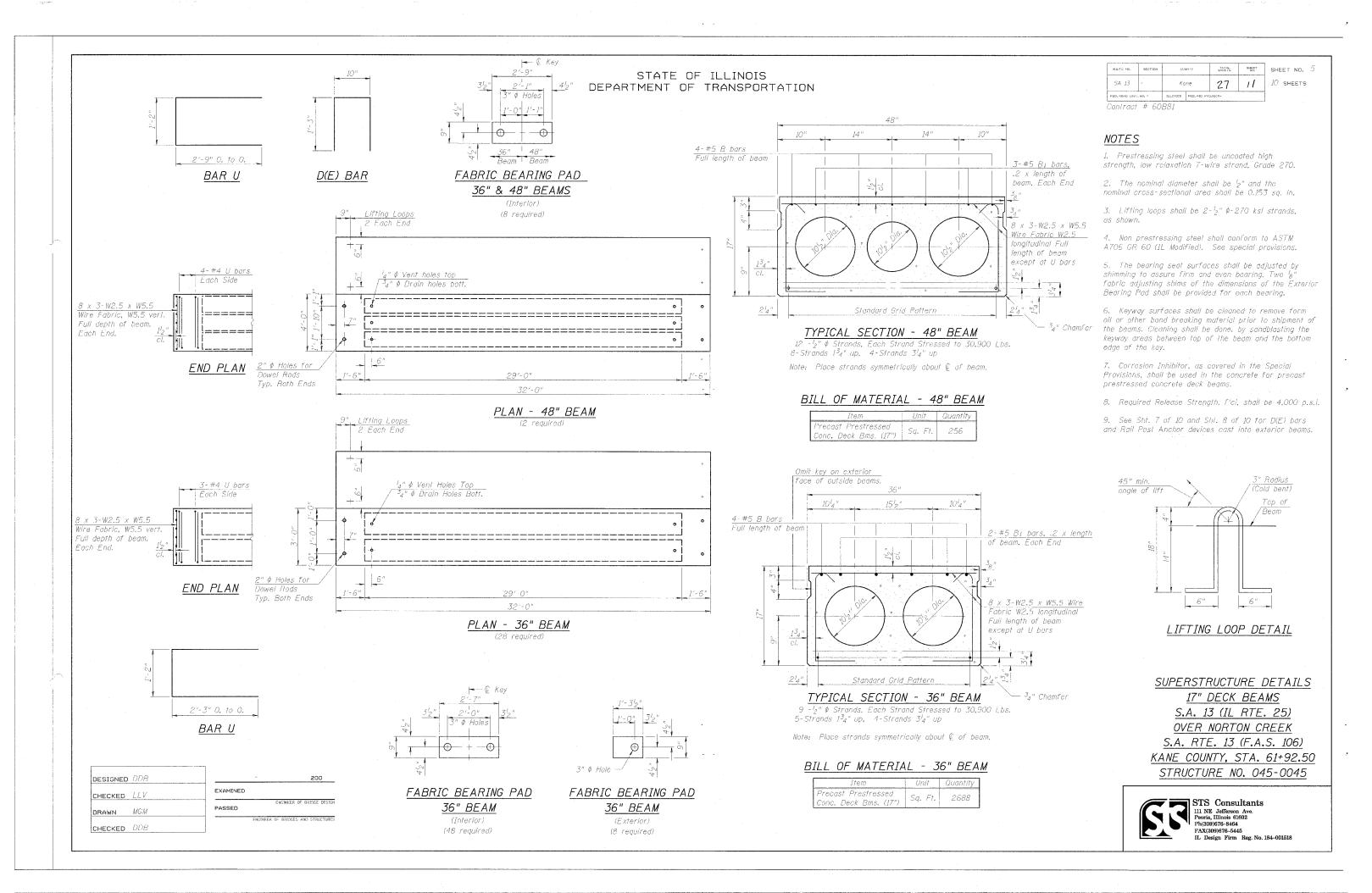
NOTES

Detail I - With Bar Splicer or Couplers:

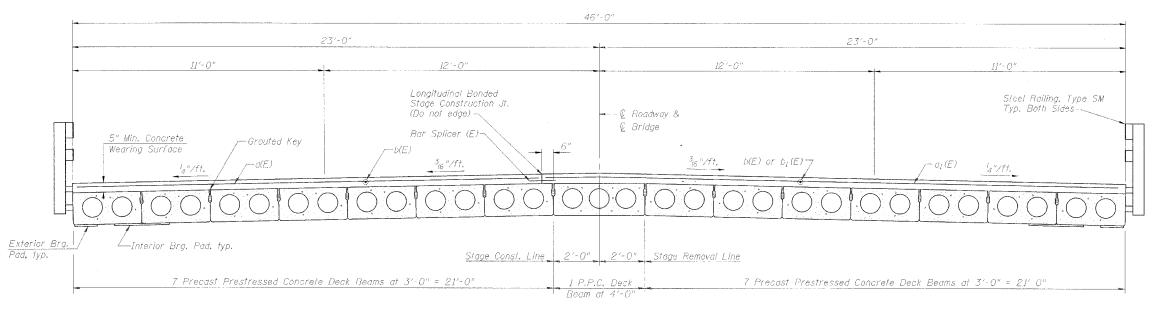
Connect one (1) 1''x7''x10'' steel P_c to the lop layer of couplers with $2-{}^5g''$ ϕ bolts screwed to coupler at approximate @ of each barrier panel. Detail II - With Extended Reinforcement Bars:

or cast in place inserts spaced between the Top layer of reinforcement at approximate € of each barrier panel,

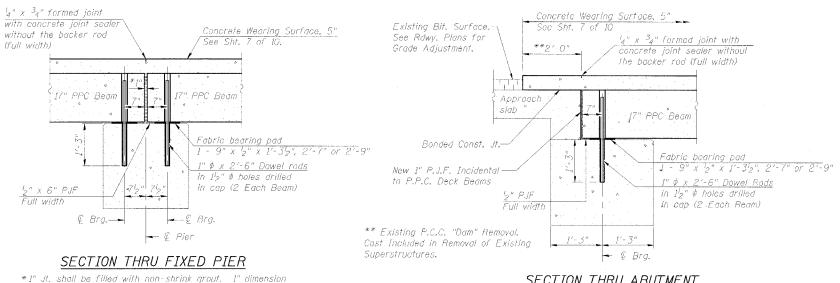
Cost of anchorage is included with Temporary Concrete Barrier. The I'' x 7'' x 10'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready



Contract # 60B81



CROSS SECTION (Looking South)



SECTION THRU ABUTMENT AT APPROACH SLAB

Notes:

- 1. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
- 2. All horizontal dimensions are at right angles to beam ends.
- 3. See Sht. 5 of 10 for bearing pad details.
- 4. Existing dowel rods shall be burned off flush with the top of the abutment or pier.

Existing Bit. Surface.

See Rawy. Plans for Grade Adjustment.

Concrete Wearing Surface, 5"

See Shl. 7 of 10

Fabric bearing pad

1 - 9" x ½" x 1'-3"

2" PJF

Full width

1'-3"

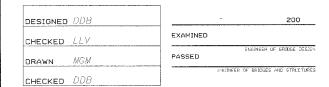
1'-3"

Q Brg.

SECTION THRU ABUTMENT
AT SHOULDERS

SUPERSTRUCTURE DETAILS
SECTIONS AND JOINT DETAILS
S.A. 13 (IL RTE. 25)
OVER NORTON CREEK
S.A. RTE. 13 (F.A.S. 106)
KANE COUNTY, STA. 61+92.50
STRUCTURE NO. 045-0045





may vary to accommodate tolerance in beam lengths.



Contract # 60B81

64'-1"

65-#4 a(E) bars © 12" cts.

/1 Bar-Splicers (E) for #4 bars

€ Rdwy.

& Bridge

CONCRETE WEARING SURFACE PARTIAL PLAN

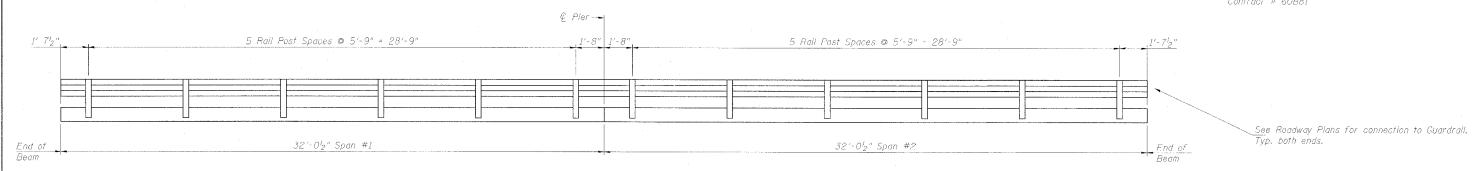
65-#4 aɪ(E) bars © 12" cts.

<u>€ Brg.</u> S. Abut.

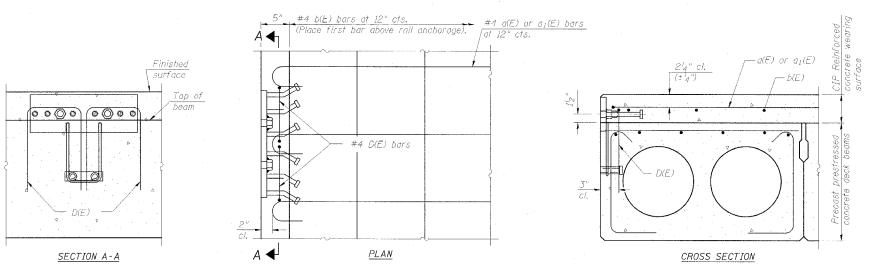
Long. Bonded

Const. Joint

⊢<u>€</u> Brg. N. Abut,



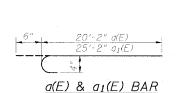
RAIL POST SPACING DETAIL

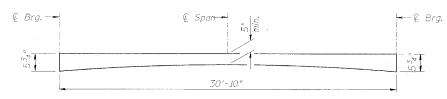


REINFORCED CONCRETE WEARING SURFACE AND RAILING CONNECTION DETAILS

The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.







REINFORCED CONCRETE WEARING SURFACE PROFILE

Thickness on center beam will vary from those shown above at edges to an additional $^3 \! g$ " at @ of roadway.

DESIGNED	DDB		-	200
CHECKED	LLV	EXAMINED		
DRAWN	MGM	PASSED	E	NGIMEER OF BRIDGE DESIGN
CHECKED	DDB	E	NGINEER OF	BRIDGES AND STRUCTURES

6.757	110.	0120	Longin	JHUPE
a(E)	65	#4	20′-8"	
$a_I(E)$	65	#4	25'-8"	
02(E)	6	#4	9'-2"	
- /f" l	/-	44.4	111 011	

RAIL POST SPACING AND CONCRETE WEARING SURFACE S.A. 13 (IL RTE. 25) OVER NORTON CREEK S.A. RTE. 13 (F.A.S. 106) KANE COUNTY, STA. 61+92.50 STRUCTURE NO. 045-0045



BILL OF MATERIAL

3-#4 a₂(L) bars © 12" cts.

Typ, Ea, End

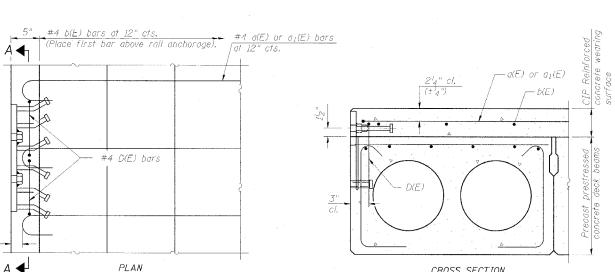
3-#4 a3(E)

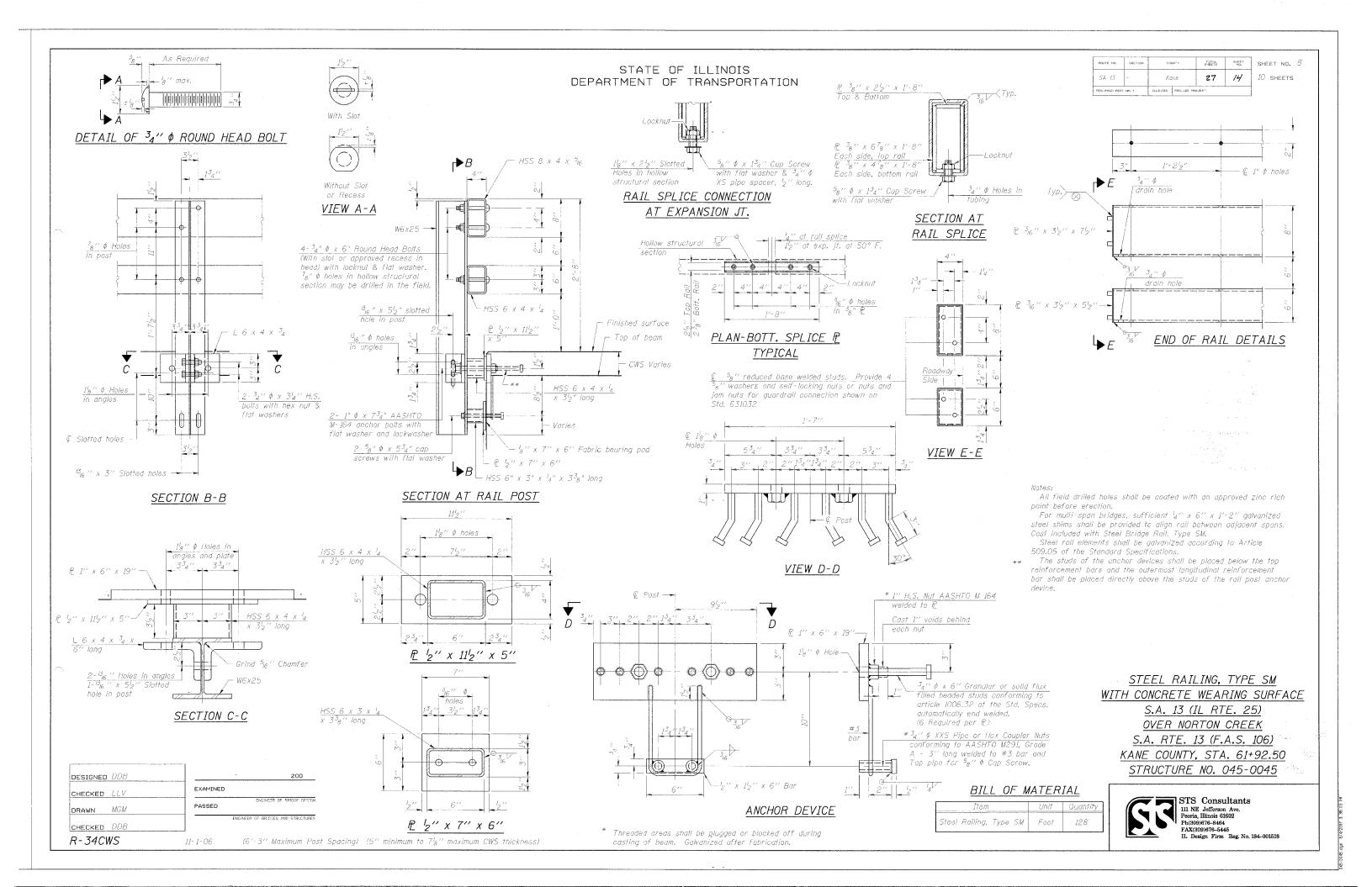
bars @ 12" cts.

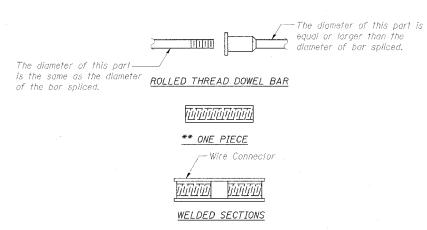
Typ. Ea. End

Laps: #4 bars - 1'-4"

Bar	No.	Size	Length	Shape
a(E)	65	#4	20′-8"	
$a_I(E)$	65	#4	25'-8"	$\overline{}$
02(E)	6	#4	9'-2"	
a3(E)	6	#4	14'-2"	
b(E)	_ 72	#4	22'-2"	
b1(E)	75	#4	23'-6"	

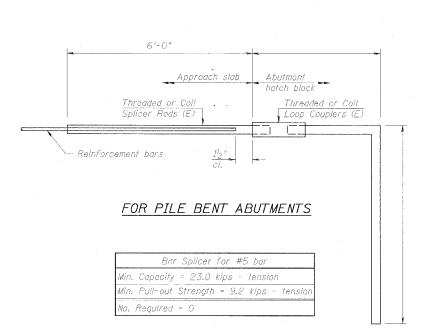






BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



- Stage Construction Line

Washer Face

<u>"B"</u>

INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or

(E): Indicates epoxy coating.

cementing to steel forms.

— Foam Plugs

Threaded or Coil

Splicer Rods (E)

<u>Template</u> Bolt

Forms -

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET NO.	9
SA 13	-	Kano		27	15	10 sheets	
ED. POAD DIST	NC. 7		PED, ALL PRO	olec			

Contract # 60B81

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in Tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

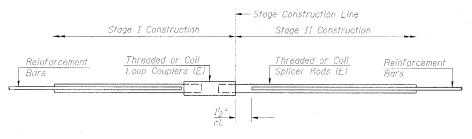
Minimum Capacity
(Tension in kips) = 1.25 x fy x A_t
Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{ollow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
		Strength Requirements			
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	5.9		
#5	2.'-0''	23.0	9.2		
#6	2'-7"	33.1	13.3		
#7	3′-5″	45.1	18.0		
#8	4'-6''	58.9	23.6		
#9	5′-9″	75.0	30.0		
#10	7′-3′′	95.0	38.0		
#11	9'-0"	117.4	46.8		

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

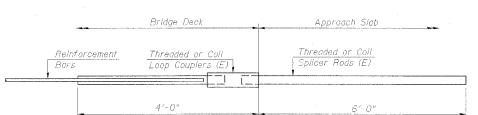


STANDARD

Bar Size	No. Assemblies Required	Location
#4	71	Wearing Surface

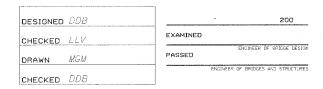
BAR SPLICER ASSEMBLY DETAILS S.A. 13 (IL RTE. 25) OVER NORTON CREEK S.A. RTE. 13 (F.A.S. 106) KANE COUNTY, STA. 61+92.50 STRUCTURE NO. 045-0045





FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	- Sį	olicer	fo	r #5	5 bar		
Min.	Capacity	=	23.0	kip	s -	tensi	on	
Min.	Pull-out	Str	ength:	=	9.2	kips	-	tension
No.	Required	= (0					



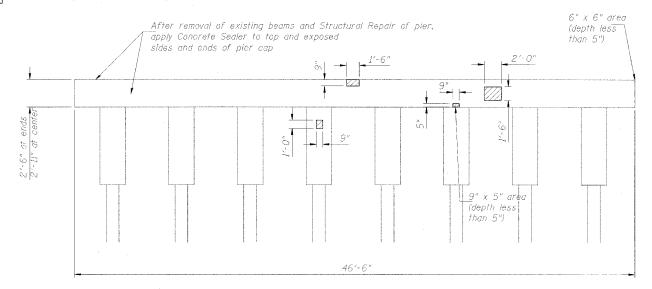
<u>LEGEND</u>

Structural Repair of Concrete (Depth Equal to or Less than 5")

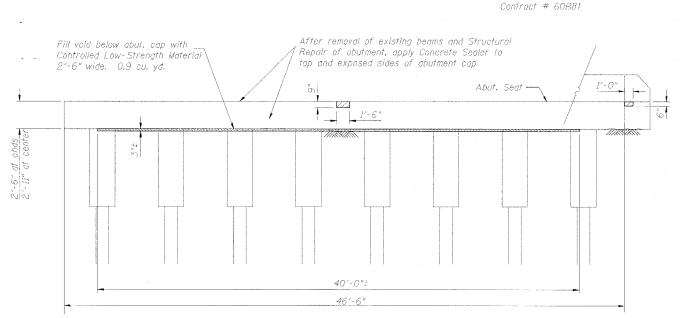
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET SHEET NO. 10 COUNTY SA 13 27 10 sheets Kane 16

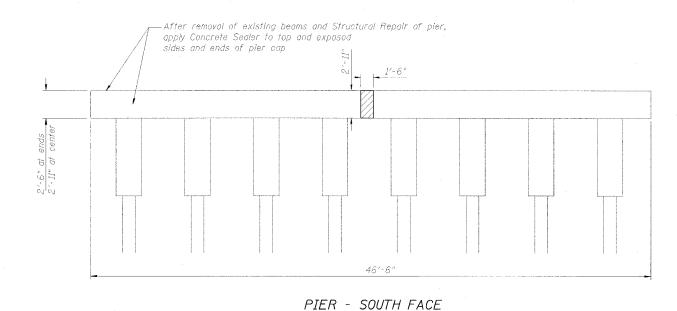
Structural Repair of Concrete (Depth Greater than 5")



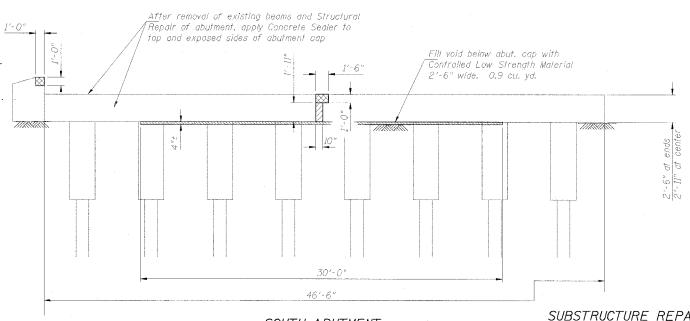
PIER - NORTH FACE



NORTH ABUTMENT



DESIGNED DDB 200 EXAMINED CHECKED LLV ENGINEER OF BRIDGE DESIGN PASSED DRAWN MGM CHECKED DDB



SOUTH ABUTMENT

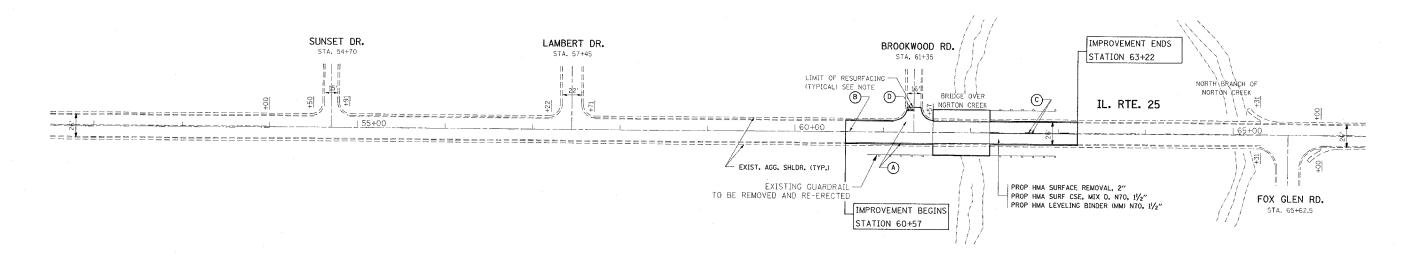
BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	2.5
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	13.4
Concrete Sealer	Sq. Ft.	865
Controlled Low-Strength Material	Cu. Yd.	1.8

SUBSTRUCTURE REPAIRS S.A. 13 (IL RTE. 25) OVER NORTON CREEK S.A. RTE. 13 (F.A.S. 106) KANE COUNTY, STA. 61+92.50 STRUCTURE NO. 045-0045



Z



LEGEND:

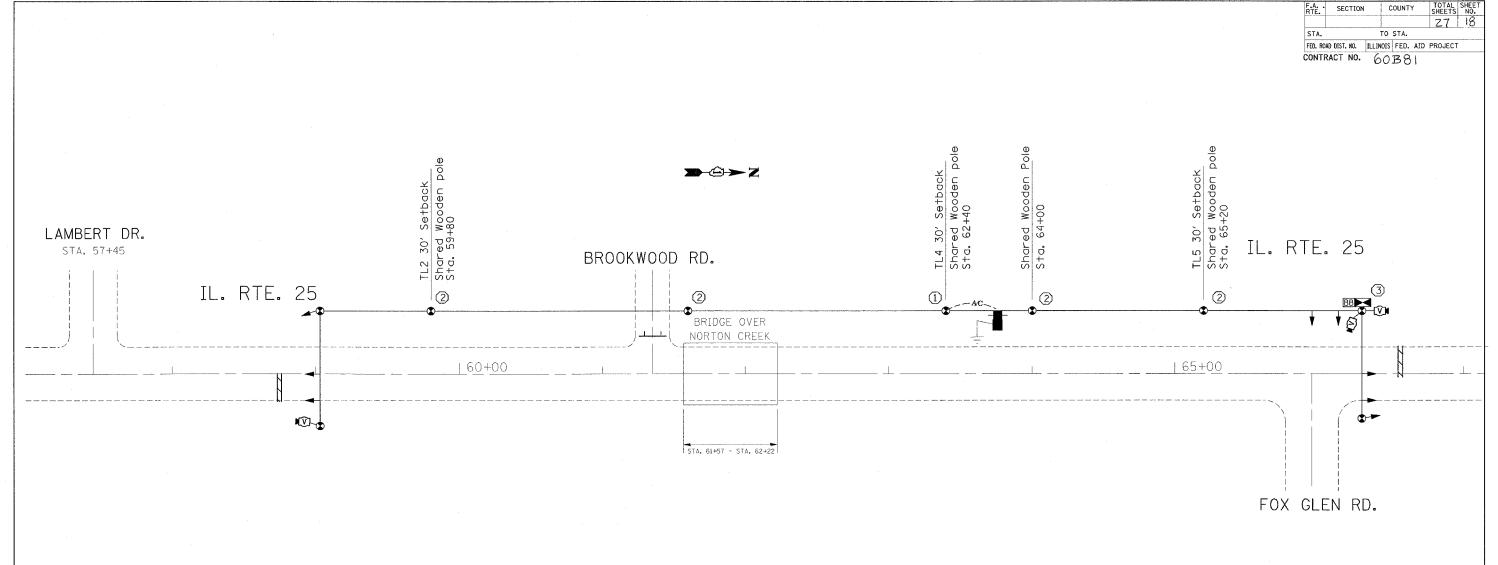
- A EDGELINE 4" SOLID WHITE
- B SKIP-DASH CENTERLINE 4" YELLOW (10' DASH & 30' SKIP)
- © NO PASSING ZONE 4" SOLID YELLOW (51/2" C-C FROM SKIP DASH LINE
- D STOP & TRANSVERSE LINES 24" SOLID WHITE

NOTE: BROOKWOOD DR SHALL BE CLOSED DURING CONSTRUCTION. SEE SHEET 21 FOR ITS DETOUR PLAN.

REVISIONS NAME	DATE	ILLINOIS DEPARTMEN	IT OF TRANSPORTATION
		IL 25 OVER	NORTON CREEK
		ROADWAY	AND PAVEMENT
		MARK	ING PLAN
		SCALE: VERT. HORIZ.	DRAWN BY
		DATE	CHECKED BY

PLOT GATE = 5/18/2287 FILE NWE = artyrojects/d148188/d148188ac.m PLOT SCALE = 58,8888 // IN. USER NAME = byunsh

...\projects\di40100\di49300as.w32 5/18/2607 t0; 27:24 AM User-zyunsh



TEMPORARY TRAFFIC SIGNAL AND REMOVAL LEGEND

	PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET		\boxtimes
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	- E P	- <u></u> -
TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION		\rightarrow
TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION		— [>>
TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED	-	-[]
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	•	\otimes
EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED		0
VIDEO DETECTOR	₩	
BATTERY BACK-UP	BB	

CONSTRUCTION NOTES:

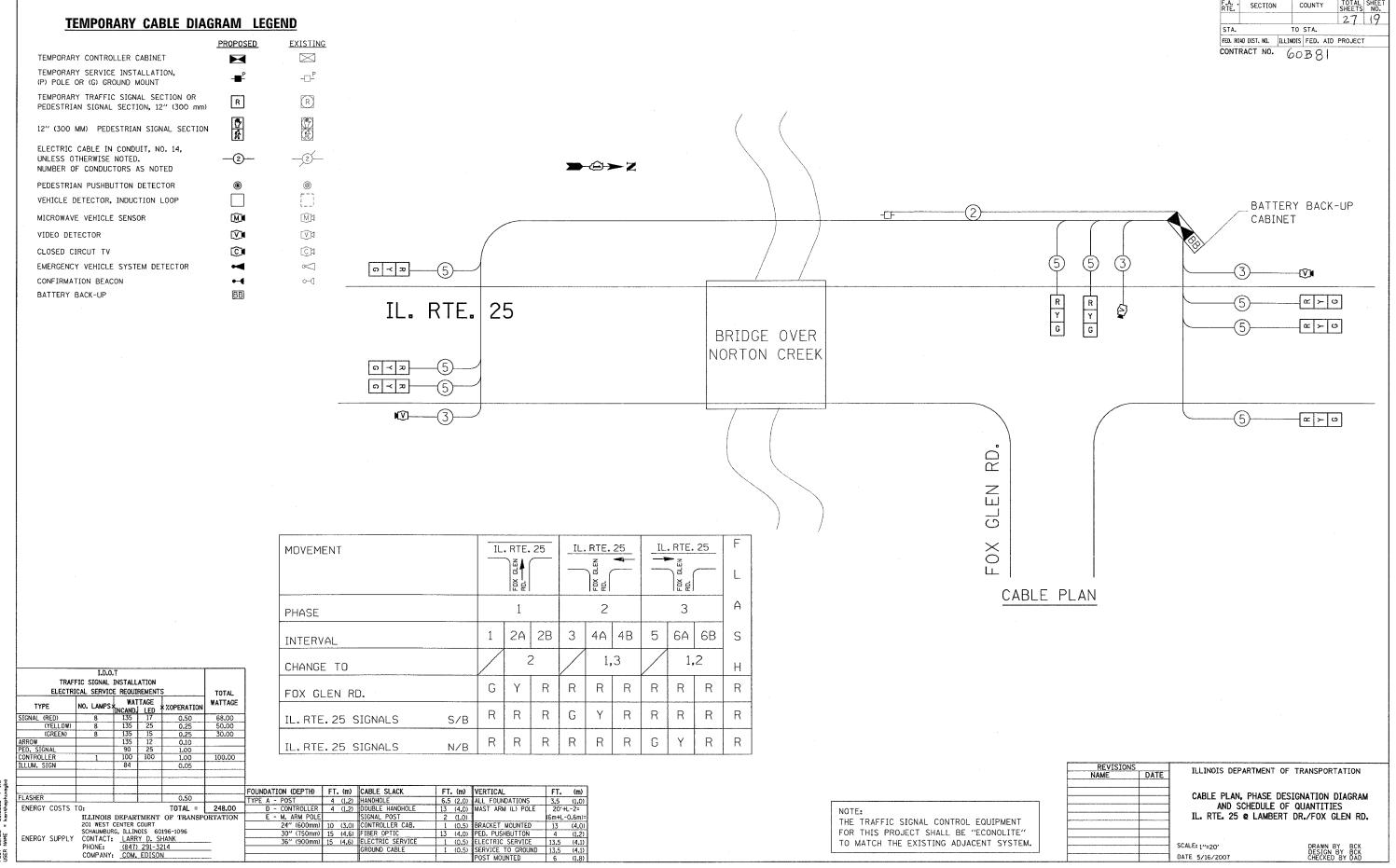
- SHARED TRAFFIC SIGNAL AND ROADWAY LIGHTING ELECTRIAL SERVICE ENCLOSER. SEE ROADWAY LIGHTING DETAIL.
- SHARED TRAFFIC SIGNAL AND ROADWAY LIGHTING WOOD POLE WITH LUMINAIRE MOUNTING LIGHT.
- (3) CONTROLLER WITH STEEL BASE CABINET AND BATTERY BACK-UP CABINET SHALL BE MOUNTED ON A WOOD STAND

ILLINOIS DEPARTMENT OF TRANSPORTATION				
TELINOIS DEL ANTIMENT OF THANSFORTATION				
TEMPORARY TRAFFIC				
TEMILONANT INALLIC				
SIGNAL PLAN				
SIGNAL FLAN				
TI DTE OF &				
IL. RTE. 25 @				
FOV OLEN DD /LANDEDT DD				
FOX GLEN RD./LAMBERT DR.				
SCALE: VERT. 1"=20" DRAWN BY BCK				

DRAWN BY BCK DESIGNED BY:BCK CHECKED BY DAD

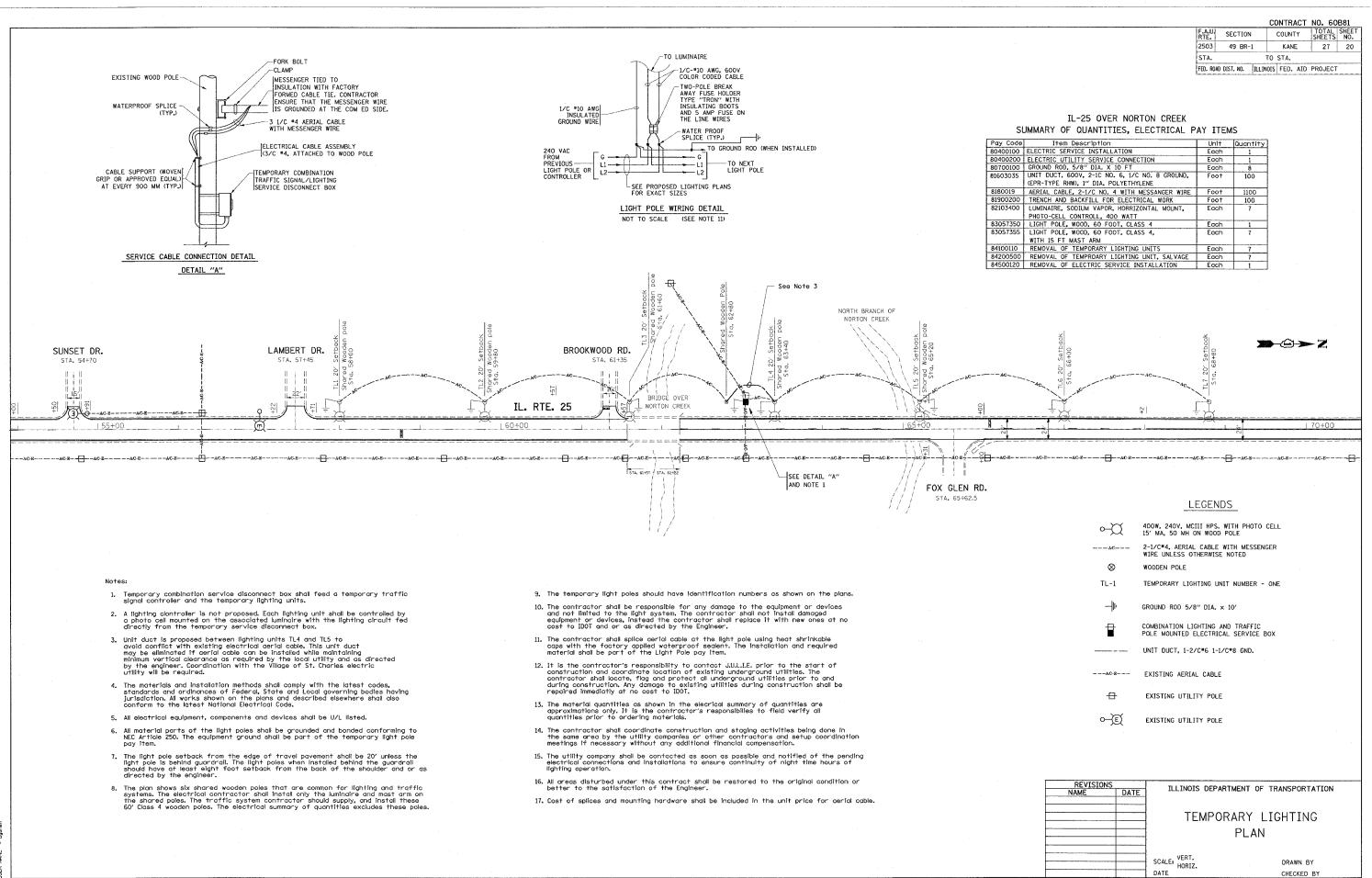
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\t07606\\\:250F2xglen.opn 5/15/2007 7:26 <6 AM Uppr=KanthaghEkaybo

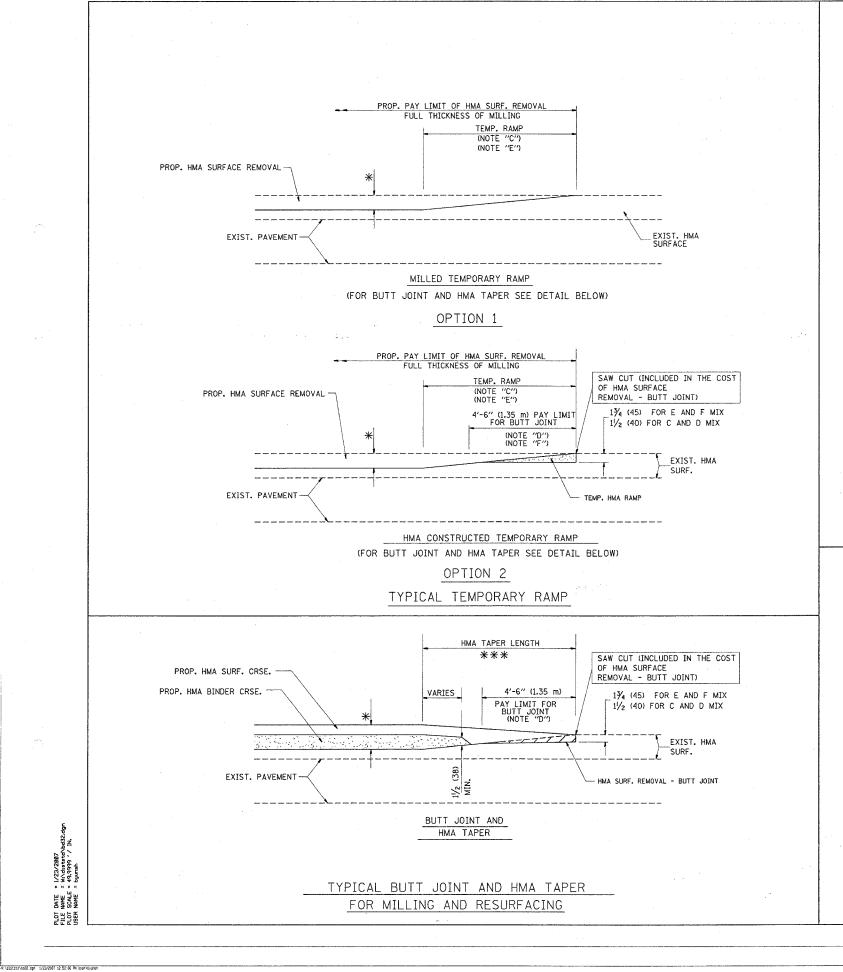


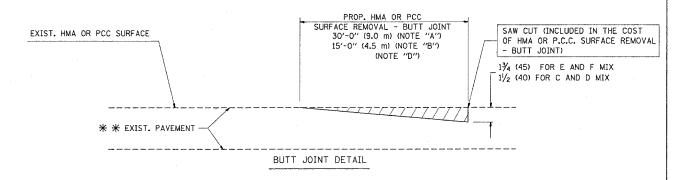
PLOT FILE PLOT USER

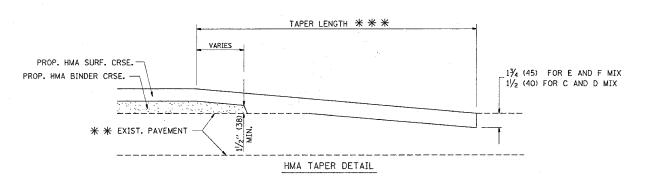
\t070986\t12587cxglan.dgn 5/15/2007 7:28:24 \$M User-konthaghinaybo



-LOCATION OF IMPROVEMENT BROOKWOOD DR 2 (R11-3a) **-** 3 3 25 4 5 LAMBERT DR (W20-2)6 **-**6 $(60'' \times 30'')$ ILLINOIS DEPARTMENT OF TRANSPORTATION IL 25 OVER NORTON CREEK DETOUR ROUTE PLAN FOR BROOKWOOD RD SCALE: VERT. DRAWN BY CHECKED BY







TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-O" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SOUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIO	NS !	
NAME	DATE	
M. DE YONG	6-13-90	
M. DE YONG	7-3-90	
M. DE YONG	3-27-92	
R. SHAH	09/09/94	
R. SHAH	10/25/94	
A. ABBAS	03/21/97	
M. GOMEZ	04/06/01	
R. BORO	01/01/07	5
		٠

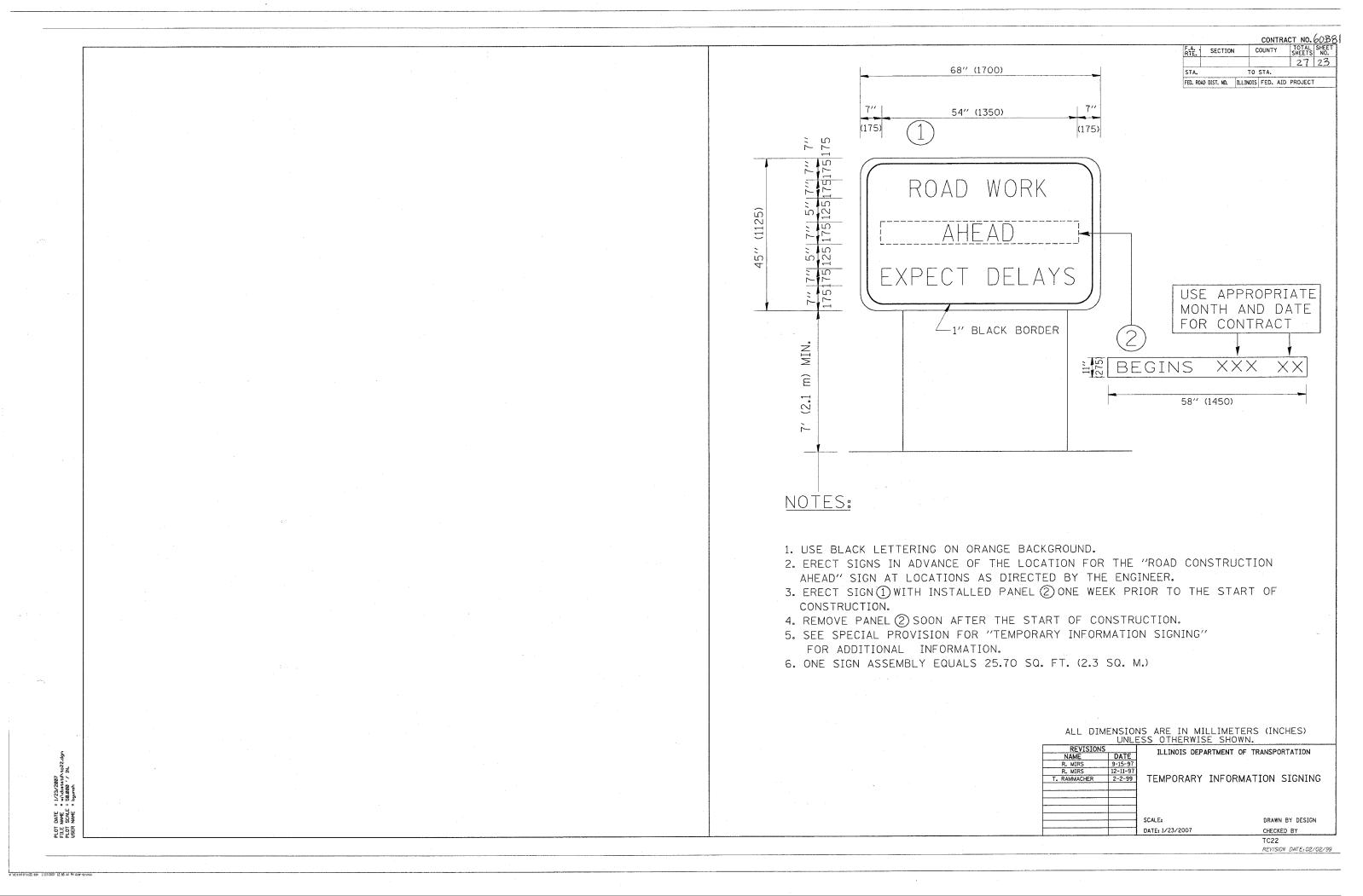
ILLINOIS DEPARTMENT OF TRANSPORTATION

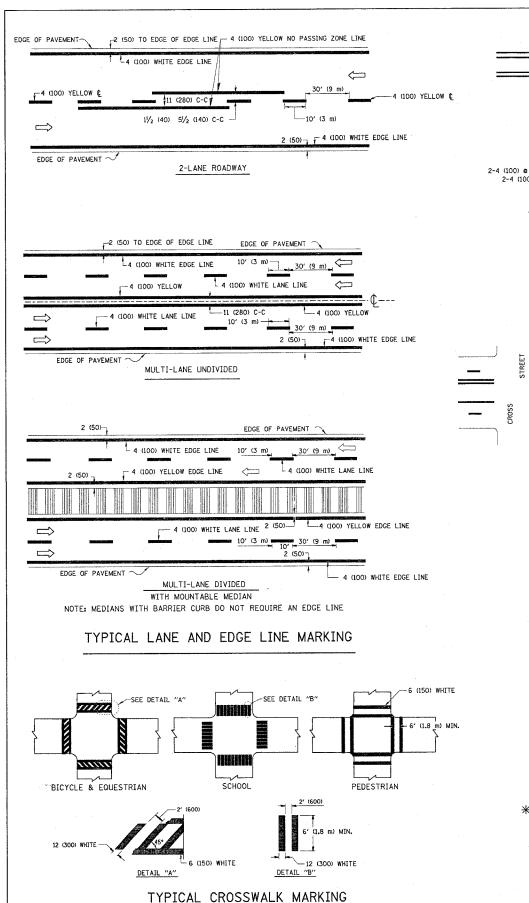
BUTT JOINT AND HMA TAPER DETAILS

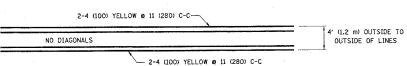
SCALE: VERT. NONE HORIZ. NONE PLOT DATE: 1/23/2007

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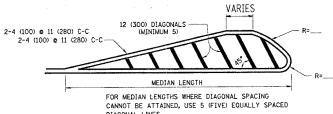
BD400-05 (VI=BD32) REVISION DATE:01/01/07





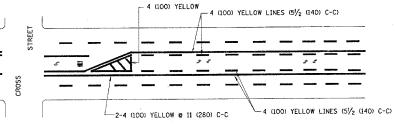


4' (1.2 m) WIDE MEDIANS ONLY

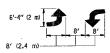


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

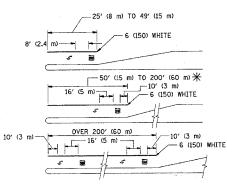


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

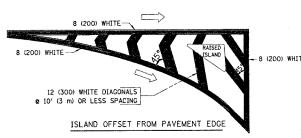
TYPICAL PAINTED MEDIAN MARKING

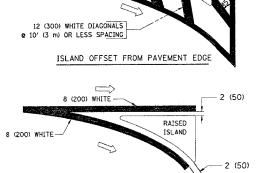


* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2,4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4" (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 © 4 (100) WITH 12 (300) DIAGONALS © 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 175' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0YER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in millimeters (inches) unless otherwise shown.

RAMMACHER ALEX HOUSEH ALEX HOUSEH T. RAMMACHER ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE DATE: 1/23/2007 DRAWN BY CADD CHECKED BY TC-13

REVISION DATE: 01/06/00

CONTRACT NO. 60B8

COUNTY

TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

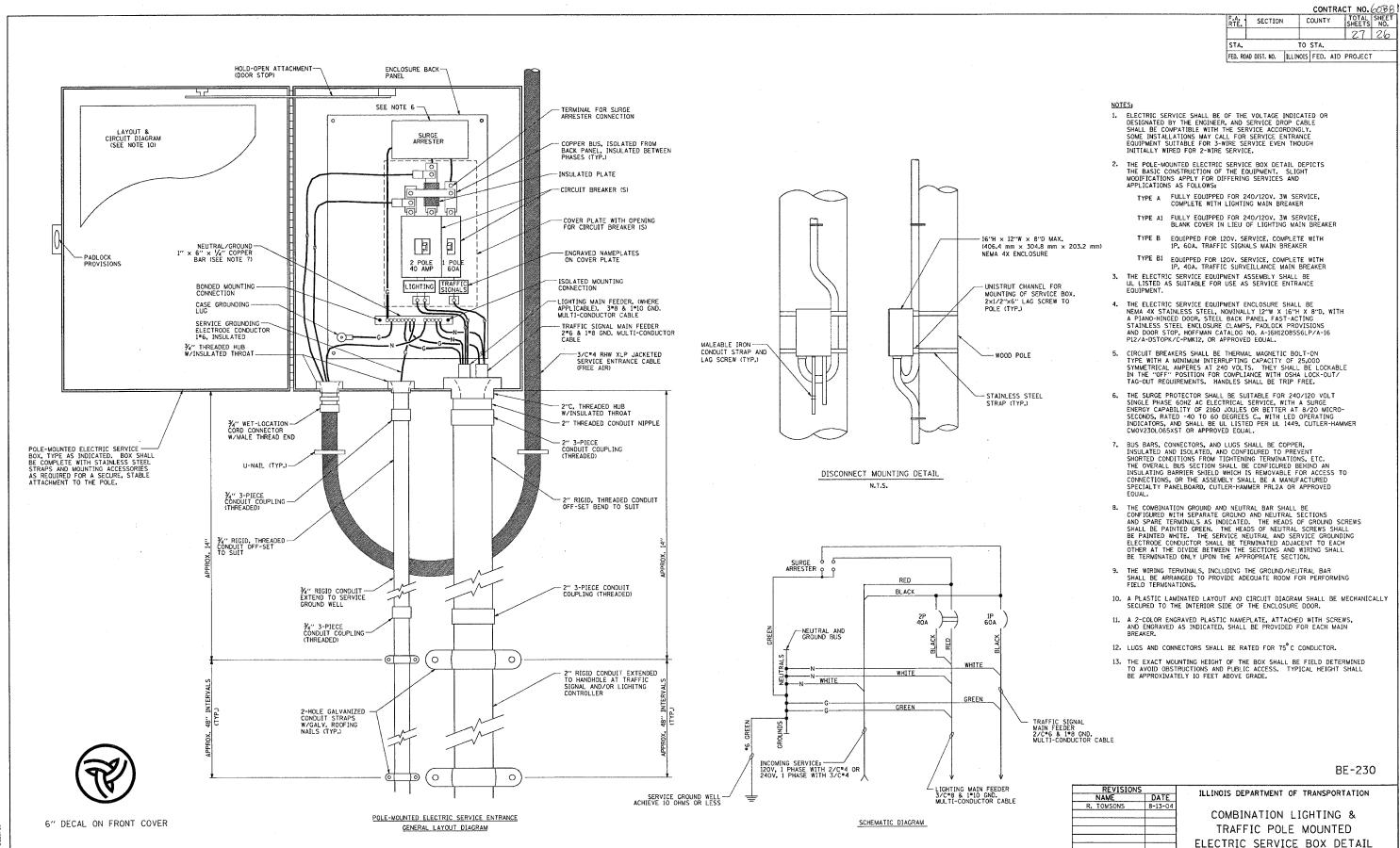
F.A. SECTION

DATE NAME SCALE NAME PLOT PLOT USER

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CONTRACT NO. 60B8 F.A. RTE. COUNTY TOTAL SHEET NO. SECTION TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 80' (24 m) O.C. 3 @ 40' (12 m) O.C. 80' (24 m) O.C. SEE NOTE B \Leftrightarrow \Leftrightarrow Ĵ - € *** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS. 40' (12 m) O.C. 10' 10' (3 m)(3 m) TWO-LANE/TWO-WAY SEE NOTE A---LANE REDUCTION TRANSITION TWO-WAY LEFT TURN 80' (24 m) O.C. 80' (24 m) O.C. SEE NOTE B SEE NOTE B GENERAL NOTES SYMBOLS 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS. ---- YELLOW STRIPE 40' (12 m) O.C. \Rightarrow WHITE STRIPE 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN. ONE-WAY AMBER MARKER 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS. ← ONE-WAY CRYSTAL MARKER (W/O) TWO-WAY AMBER MARKER SEE NOTE A-MULTI-LANE/UNDIVIDED LANE MARKER NOTES SEE NOTE A B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS. MULTI-LANE/DIVIDED A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN. DESIGN NOTES 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE. 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS. 4. MARKERS SHOULD NOT BE LISED ALONGSIDE CURBS EXCEPT FOR EXTREMELY MINIMUM OF 3 W EQUALLY SPACED 3 @ 80' (24 m) O.C. - 3 @ 80' (24 m) O.C. SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE 3 @ 40' (12 m) O.C. INVOLVED. 3 & 40' (12 m) 40′ (12 m) 0.C. 40' (12 m) 0,C. All dimensions are in millimeters (inches) unless otherwise shown. ILLINOIS DEPARTMENT OF TRANSPORTATION * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS. TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) LEFT TURN SCALE: NONE DRAWN BY CADD DATE: 1/23/2007 CHECKED BY REVISION DATE: 01/06/00

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DATE NAME SCALE NAME PLOT FILE PLOT USER

DRAWN BY CHECKED BY BE-230

SCALE: NONE

COUNTY

CONTRACT NO. 60BB COUNTY TOTAL SHEET NO. F.A. SECTION FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

- HEAVY DUTY INSULATED PULLEY CLEVIS WOOD POLE -BARE COPPER GROUND WIRE EVERY THIRD POLE MESSENGER TIED TO INSULATOR -WITH FACTORY FORMED CABLE TIE - TO LUMINAIRE GROUND CLAMP -NEUTRAL CONDUCTOR AWG BARE COPPER GROUND WIRE - PHASE CONDUCTOR - WATERPROOF FUSEHOLDER & FUSE WATERPROOF INSULATION -PIERCING TAP CONNECTOR - WATERPROOF FUSEHOLDER AND SOLID NEUTRAL SLUG

TEMPORARY LIGHT POLE ATTACHMENT DETAIL

- MAST ARM LENGTH AS SPECIFIED (TWIN ARMS WHERE INDICATED) CLEVIS -BARE COPPER -GROUND WIRE LIFT PLATE-FORGED ANGLE THIMBLEYE 3 BOLT CLAMPS - WOOD POLE CLASS AND LENGTH AS SPECIFIED 3/8" (9.5)-7 STRAND ZINC COATED STEEL GUY WIRE 3 BOLT CLAMPS 12" (304) MAX 4" (101) MIN. BACKFILL FINE WET LIMESTONE ANCHOR JOSLYN -SCREENING COMPACTED & THOROUGHLY TAMPED 5%" (15.9) X 8' (2.4 m) GROUND ROD - 6" (152) COARSE GRAVEL SETTLING PAD

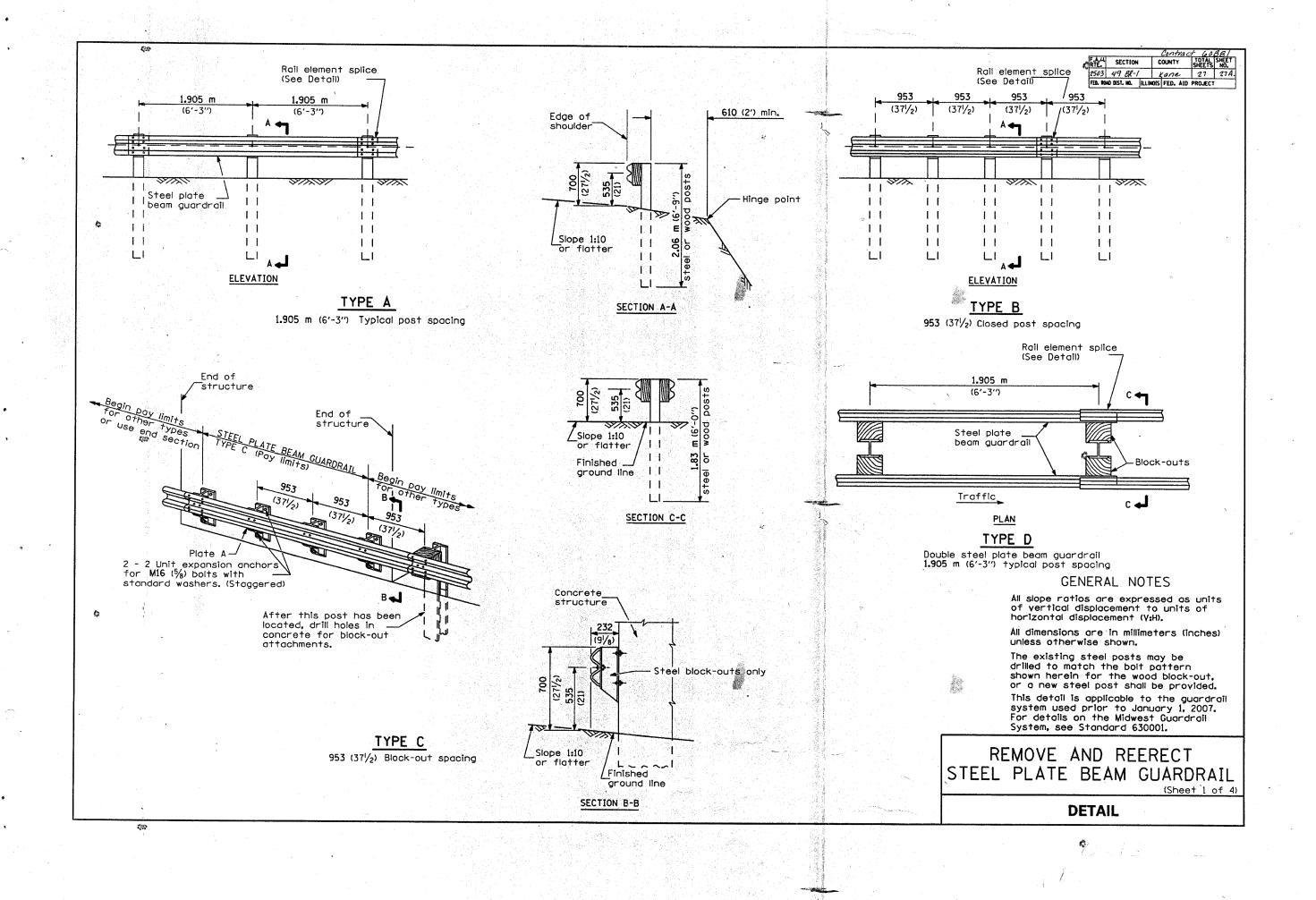
TEMPORARY LIGHT POLE DETAIL

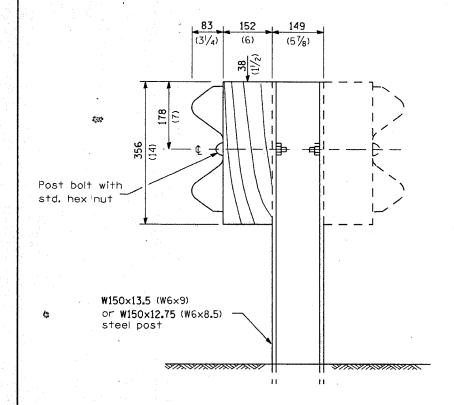
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLÉSS OTHERWISE INDICATED

ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY LIGHT POLE DETAILS SCALE: VERT. HORIZ. DATE: 2/27/2007 DRAWN BY CHECKED BY BE-800

REVISION DATE: 01/01/07

PLOT FILE PLOT USER





STEEL POST CONSTRUCTION

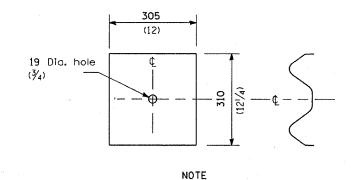
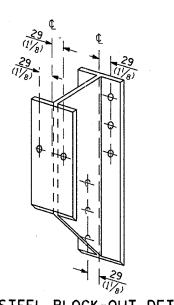
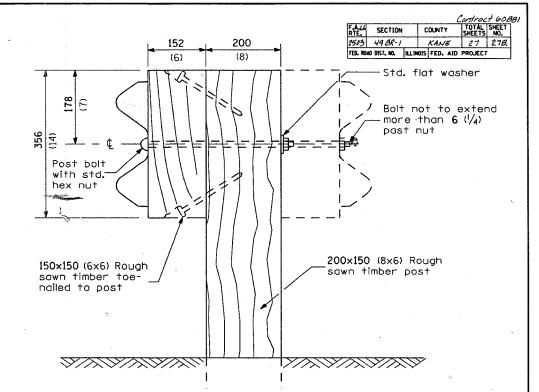


Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

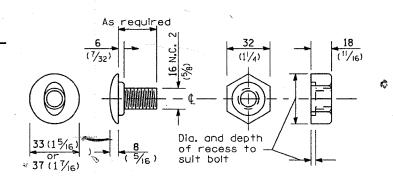
PLATE A



STEEL BLOCK-OUT DETAIL



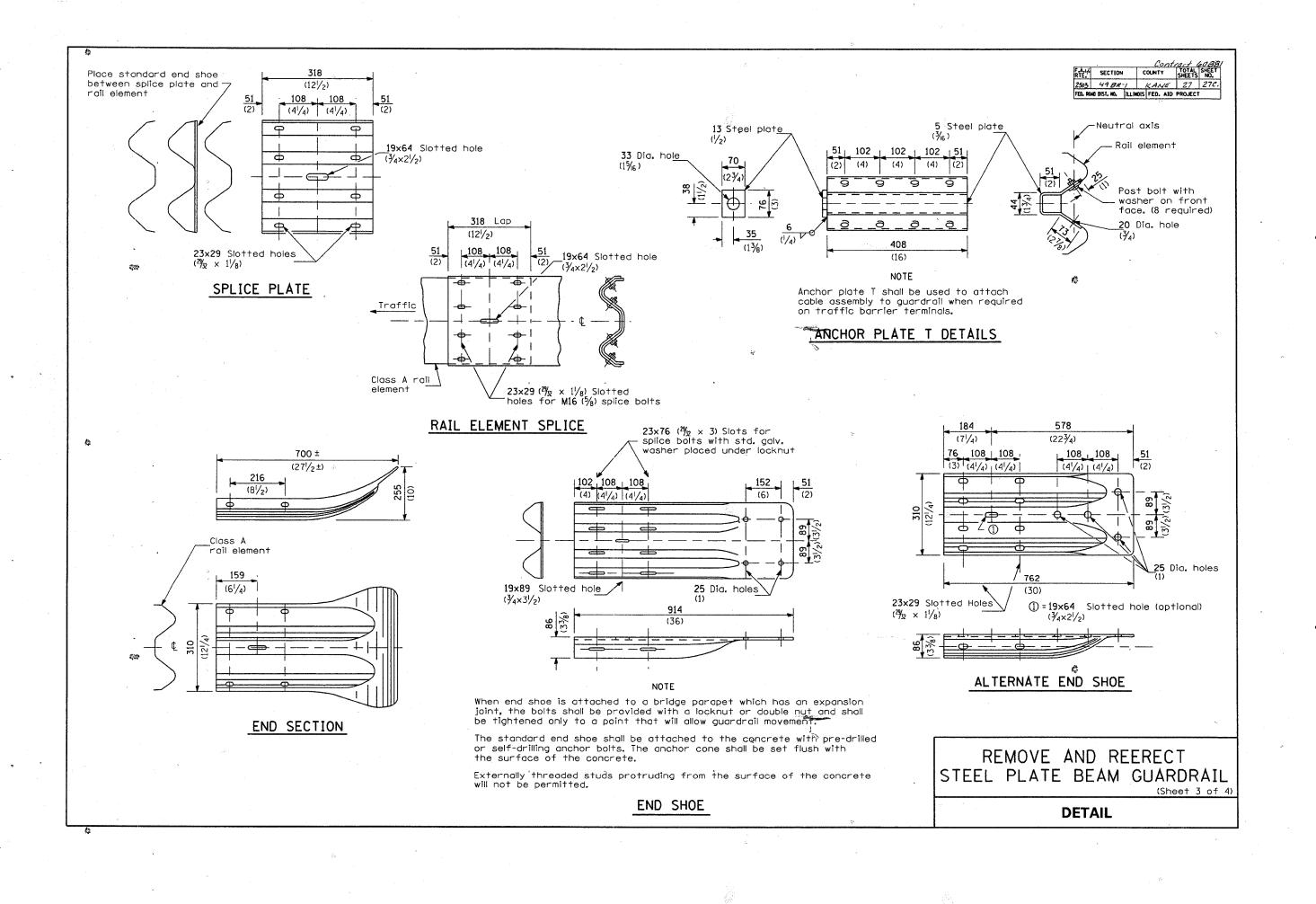
WOOD POST CONSTRUCTION

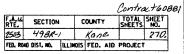


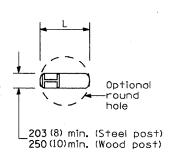
POST OR SPLICE BOLT & NUT

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

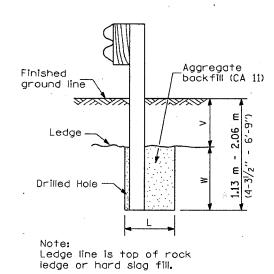
DETAIL





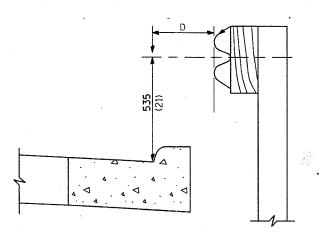


PLAN



ELEVATION

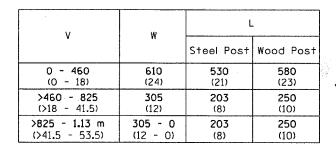
FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

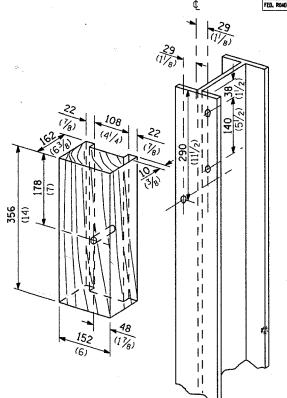


If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

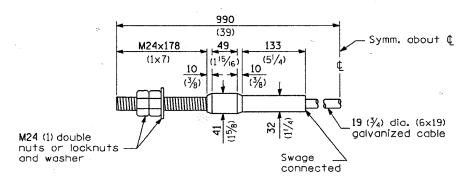
GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 300 (12) maximum)





WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength) Tighten to taut tension.

> REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

DETAIL